

B3GNT1 Protein, Human (HEK293, His)

Cat. No.:	HY-P7627
Synonyms:	rHuB3GNT1, His; B3GNT1; Beta-1,3-N-Acetylglucosaminyltransferase 1;
Species:	Human
Source:	HEK 293
Accession:	O43505 (D43-C415)
Gene ID:	11041
Molecular Weight:	45-55 kDa

PROPERTIES

AA Sequence	<pre> D Q Y F E F F P P S P R S V D Q V K A Q L R T A L A S G G V L D A S G D Y R V Y R G L L K T T M D P N D V I L A T H A S V D N L L H L S G L L E R W E G P L S V S V F A A T K E E A Q L A T V L A Y A L S S H C P D M R A R V A M H L V C P S R Y E A A V P D P R E P G E F A L L R S C Q E V F D K L A R V A Q P G I N Y A L G T N V S Y P N N L L R N L A R E G A N Y A L V I D V D M V P S E G L W R G L R E M L D Q S N Q W G G T A L V V P A F E I R R A R R M P M N K N E L V Q L Y Q V G E V R P F Y Y G L C T P C Q A P T N Y S R W V N L P E E S L L R P A Y V V P W Q D P W E P F Y V A G G K V P T F D E R F R Q Y G F N R I S Q A C E L H V A G F D F E V L N E G F L V H K G F K E A L K F H P Q K E A E N Q H N K I L Y R Q F K Q E L K A K Y P N S P R R C H H H H H H </pre>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM Tris-HCl, 150 mM NaCl, pH7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	A truncating mutation in B3GNT1 causes severe Walker-Warburg syndrome ^[1] . B3gnt1 gene encodes a poly-N-acetyl-
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lactosamine synthase which can initiate and extend poly-N-acetyllactosamine chains [Gal(b1-4)GlcNAc (b1-3)n] [2].

REFERENCES

- [1]. Ranad Shaheen, et al. A truncating mutation in B3GNT1 causes severe Walker-Warburg syndrome. *Neurogenetics*. 2013 Nov;14(3-4):243-5.
- [2]. Franziska Biellmann, et al. Impaired sexual behavior in male mice deficient for the beta1-3 N-acetylglucosaminyltransferase-I gene. *Mol Reprod Dev*. 2008 May;75(5):699-706.
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Caution: Product has not been fully validated for medical applications. For research use only.

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